SIEMENS

# High Voltage Cables

AX

## Replacements of Parts

High Voltage Cables

Pirelli and Claymount

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# General Information

## Establishing the HV Plug-in Connections

**To ensure on-going, problem-free function, the following points must be observed:**

- Use only the materials provided and ensure that parts are not damaged
- Pay attention to the cleanliness of the connectors, sockets and insulations parts, aids and tools.
- Do not touch the insulation parts with your bare hand; hand perspiration causes spikes.
- For cleaning, use only clean, soft and lint-free cloths.
- Remove stubborn soiling with undiluted ethyl alcohol and **wipe the connectors so they are dry**.
- Examine the HV connectors and sockets for cracks and traces of overheating. Use only undamaged insulation parts.
- Do not mix silicon oil and transformer oil.
- When exposed to the silicon oil, the silicon disk and the sealer ring swell slightly; when this happens, this ensures that no moisture can get into the connection. If the plug-in connector is removed after longer operation (more than 8 days), the silicon disk and the sealer ring must be replaced.

| NOTE | **If too much force is used, depending on the tolerances, it is still possible to insert the connector into the socket turned 120° despite the slot and nib.** |
|---|---|

# Safety Information

## General Safety Information

⚠WARNING

**Safety Information!**

➪ **When performing the work steps and test, the product-specific safety information contained in the documents as well as the general safety information for medical products must be observed.**

## High Voltage Cables, Model G5474

| Part No.: | Designation | Use |
|---|---|---|
| 100 93 759 | HV Cable, 3-pole, 20m | AXIOM Artis MP / dMP |
| 100 93 762 | HV Cable, 4-pole, 20m | AXIOM Artis MP / dMP |
| 100 93 760 | HV Cable, 3-pole, 28m | AXIOM Artis FA / FC / dFA / dFC / dFCM / BA (Plane A) / BC (Plane A) / dBA (Plane A) / dBC (Plane A) |
| 100 93 763 | HV Cable, 4-pole, 28m | AXIOM Artis FA / FC / dFA / dFC / dFCM / BA (Plane A) / BC (Plane A) / dBA (Plane A) / dBC (Plane A) |
| 100 93 761 | HV Cable, 3-pole, 30m | AXIOM Artis TA / TC / dTA / dTC / BA (Plane B) / BC (Plane B) / dBA (Plane B) / dBC (Plane B) |
| 100 93 764 | HV Cable, 4-pole, 30m | AXIOM Artis TA / TC / dTA / dTC / BA (Plane B) / BC (Plane B) / dBA (Plane B) / dBC (Plane B) |

### Replacement:

n.a.

### Recognition Features:

- High voltage cable color = cream white
- High voltage cables identified with the LOCAFLEX printing.
- Cable diameter of the 3- and 4-pole high voltage cables = 16 mm
- High Voltage Cables covered with the black Euroflex hose

## Items Included in Shipment

*Fig. 1: Claymount accessory pack, 3-pole*

| | |
|---|---|
| Pos. 1 | Mounting ring |
| Pos. 2 | Contact ring |
| Pos. 3 | Sealer ring |
| Pos. 4 | Silicon disk, 3-pole |
| Pos. 5 | Silicon oil |

*Fig. 2: Claymount accessory pack, 4-pole*

| | |
|---|---|
| Pos. 1 | Mounting ring |
| Pos. 2 | Contact ring |
| Pos. 3 | Sealer ring |
| Pos. 4 | Silicon disk, 4-pole |
| Pos. 5 | Silicon oil |

*Fig. 3: Claymount angled cuff, complete*

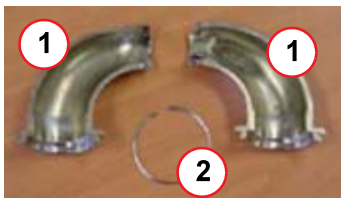


*Fig. 4: Claymount angled cuff, single parts*

| | |
|---|---|
| Pos. 1 | Angled cuff half cowl |
| Pos. 2 | Snap ring |

**NOTE**

**When ordering a 3-pole high voltage cable, the 3-pole accessory pack, an angled cuff as well as a 20 m Euroflex hose are included in the shipment.**

**When ordering a 4-pole high voltage cable, the 4-pole accessory pack, an angled cuff as well as a 20 m Euroflex hose are included in the shipment.**

## Connecting the High Voltage Connectors to the X-ray Tube Unit

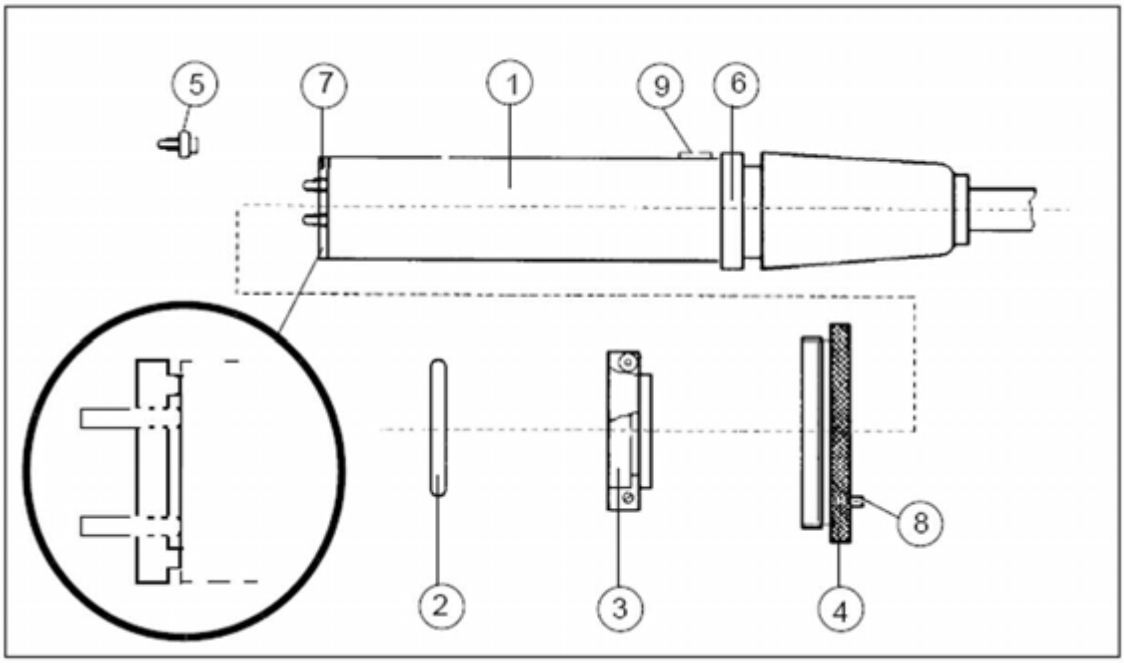


*Fig. 5: Claymount high voltage connectors*

Pos. 1 High voltage connectors
Pos. 2 Sealer ring
Pos. 3 Contact ring
Pos. 4 Mounting ring
Pos. 5 Contact pin (replaceable
Pos. 6 Contact flange (part of the high voltage connector)
Pos. 7 Silicon disk
Pos. 8 Safety screw for mounting ring
Pos. 9 Guide nipple on high voltage connector

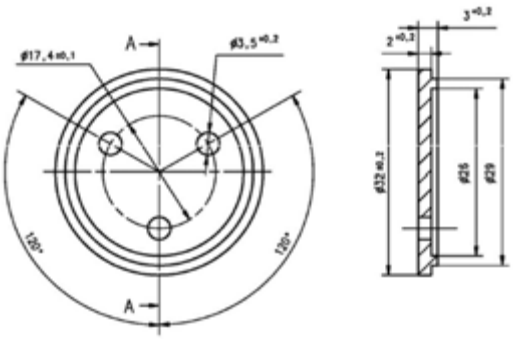


*Fig. 6: Claymount silicon disk, Part No.: 10093772*

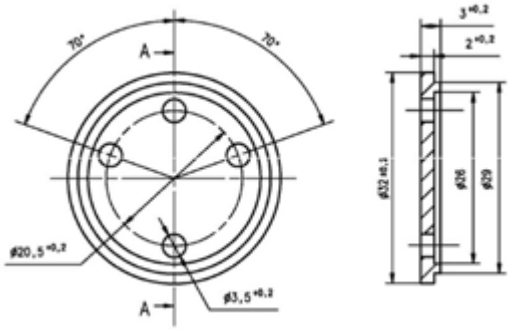


*Fig. 7: Claymount silicon disk, Part No.: 10093773*

*Fig. 8: Claymount angled cuff, installation*

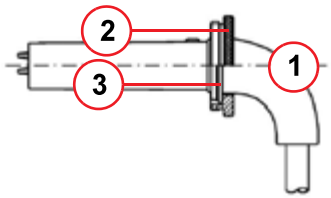


*Fig. 9: Claymount angled cuff, installed*

| | |
|---|---|
| Pos. 1 | Angled cuff half cowls |
| Pos. 2 | Mounting ring |
| Pos. 3 | Snap ring |

- Turn out the safety screw (8/Fig. 5 / p. 9) from the mounting ring until it is no longer projecting out on the inside of the mounting ring.
- Unscrew the parts of the contact ring (3/Fig. 5 / p. 9).
- Slide the mounting ring (4/Fig. 5 / p. 9) over the high voltage connector.
- Place the halves of the contact ring over the contact flange (6/Fig. 5 / p. 9) and thread them together.

**NOTE**

**If the angled cuff (Fig. 9 / p. 10) is installed, assembly of the contact ring (3/Fig. 5 / p. 9) is skipped.**

- **Remove the angled cuff by removing the snap ring (2/Fig. 4 / p. 8).**
- **Place the two angled cuff half cowls on the contact flange of the high voltage connector (Fig. 8 / p. 10).**
- **Secure the two angled cuff half cowls with the snap ring (3/Fig. 9 / p. 10).**

- Slide the sealer ring (2/Fig. 5 / p. 9) over the high voltage connector until it is up against the contact ring.
- Evenly apply silicon oil using only the tip of the tube on the front of the connector. Then place on the silicon disk (Fig. 6 / p. 9) and moisten it with silicon oil.

**NOTE**

**For AXIOM Artis systems with a:**

- **MEGALIX CAT 125/35/80-121GW, Part No.: 5764506**
- **OPTITOP 150/40/80HC-100-4, Part No.: 4802216**

**there must be a short circuit jumper (Fig. 10 / p. 11) on the cathode side high voltage cable between the grid (G) and cathode (0) connection pins.**

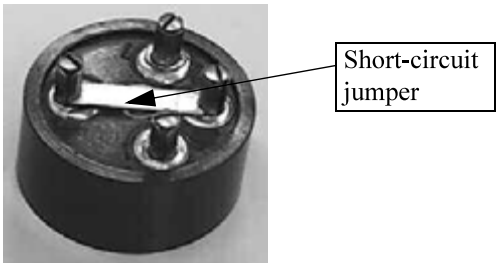


*Fig. 10: Short-circuit jumper for 2-focus tube*

- Line up the guide nib on the high voltage connector with the slot on the socket and carefully insert the connector into the socket. When this is done, the air must be able to escape the socket.
- Hand-tighten the mounting ring on the cable sleeve.
- After about one hour, check the tightness of the mounting ring.
- Secure the mounting ring with the safety screw.

## Connecting the High Voltage Connectors to the High Voltage Transformer

- Turn out the safety screw from the mounting ring until it is no longer projecting out on the inside of the mounting ring.
- Unscrew the parts of the contact ring (3/Fig. 5 / p. 9).
- Slide the mounting ring (4/Fig. 5 / p. 9) over the high voltage connector.
- Place the halves of the contact ring over the contact flange (6/Fig. 5 / p. 9) and thread them together.
- Installation of the High Voltage Connector, depending on the Generator:
  - With POLYDOROS IS A(F) open:

    Check the oil level in the socket; if needed, add oil. Minimum oil level without the connector inserted = 5 mm or 5 ml. The high voltage connector is inserted without a silicon disk.
  - With POLYDOROS A100:

    Evenly apply silicon oil using only the tip of the tube on the front of the connector. Then place on the silicon disk and moisten it with silicon oil.
- Line up the guide nib on the high voltage connector with the slot on the socket and carefully insert the connector into the socket.
- Hand-tighten the mounting ring.
- Secure the mounting ring with the safety screw.

## Claymount High Voltage Cable, Model X2194

| Part No.: | Designation | Use |
|---|---|---|
| 30 65 500 | HV Cable, 3-pole, 4m | With the following generators:<br>• POLYDOROS 80A<br>• POLYDOROS 100A<br>• POLYDOROS IS-A on workstation 1 with 3-pole cathode-side high voltage cables<br>• POLYDOROS IS-AF on workstation 1 with 3-pole cathode-side high voltage cables |
| 30 65 518 | HV Cable, 3-pole, 6m | |
| 30 65 526 | HV Cable, 3-pole, 8m | |
| 30 65 534 | HV Cable, 3-pole, 10m | |
| 30 65 542 | HV Cable, 3-pole, 12m | |
| 30 65 559 | HV Cable, 3-pole, 14m | |
| 30 65 567 | HV Cable, 3-pole, 16m | |
| 30 65 575 | HV Cable, 3-pole, 18m | |
| 30 65 583 | HV Cable, 3-pole, 20m | |
| 30 65 609 | HV Cable, 3-pole, 24m | |
| 30 65 625 | HV Cable, 3-pole, 28m | |

**NOTE**

**If a 4-pole high voltage cable, model X2195 is used for connection of grid-controlled or 3-focus X-ray tubes (4-pole cathode-side socket) with the POLYDOROS IS-A(F), the 3-pole Superflex high voltage cable, model X2199 must be used on the anode side.**

### Replacement:

Pirelli High Voltage Cables (Pirelli High Voltage Cables / p. 32)

**NOTE**

**Anode-side and cathode-side high voltage cables must always be from the same manufacturer. In other words, if a Claymount high voltage cable is replaced with a Pirelli high voltage cable, both high voltage cables have to be replaced.**

## Recognition Features:

- High voltage cable color = cream white
- High voltage cables identified with the LOCAFLEX printing.
- Cable diameter of the high voltage cable = 16 mm

## Items included in the Shipment:

When ordering a 3-pole high voltage cable, the 3-pole accessory pack is included.

*Fig. 11: Claymount accessory pack, 3-pole*

| | |
|---|---|
| Pos. 1 | Mounting ring |
| Pos. 2 | Contact ring |
| Pos. 3 | Sealer ring |
| Pos. 4 | Silicon disk, 3-pole |
| Pos. 5 | Silicon oil |

## Connecting the High Voltage Connectors to the X-ray Tube Unit

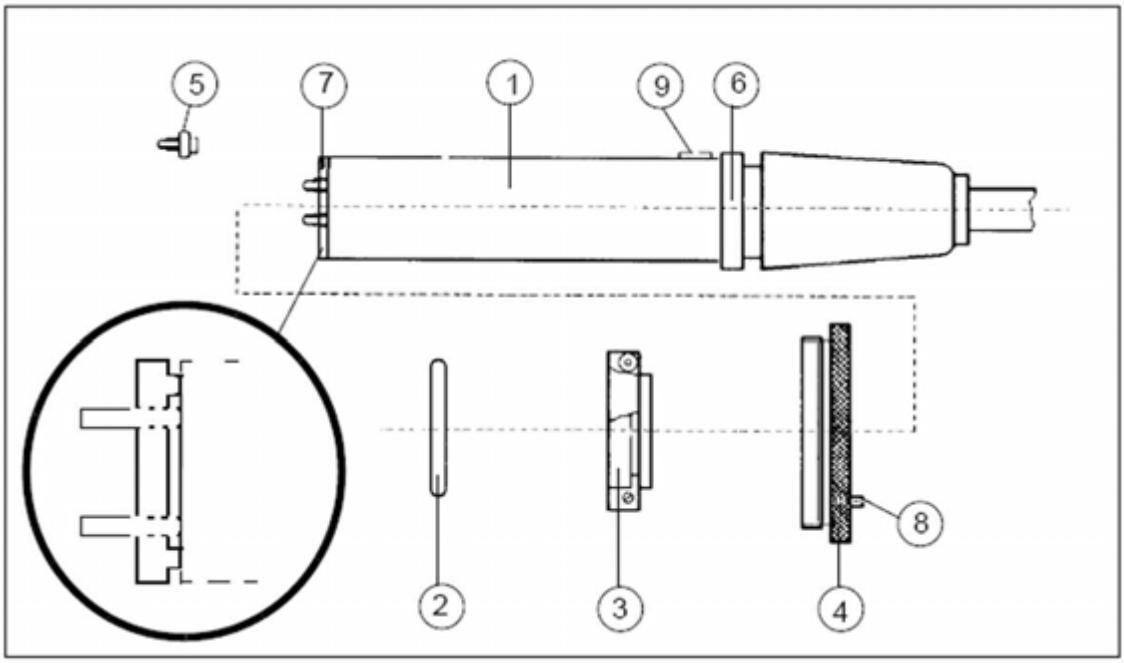


*Fig. 12: Claymount high voltage connectors*

| | |
|---|---|
| Pos. 1 | High voltage connectors |
| Pos. 2 | Sealer ring |
| Pos. 3 | Contact ring |
| Pos. 4 | Mounting ring |
| Pos. 5 | Contact pin (replaceable |
| Pos. 6 | Contact flange (part of the high voltage connector) |
| Pos. 7 | Silicon disk |
| Pos. 8 | Safety screw for mounting ring |
| Pos. 9 | Guide nipple on high voltage connector |

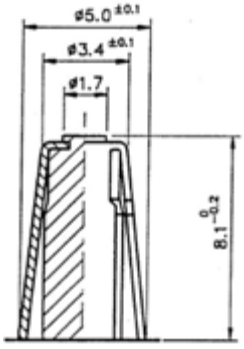


*Fig. 13: Claymount contact pin, old*

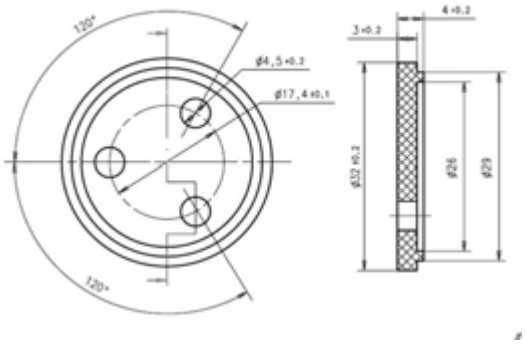

*Fig. 14: Claymount silicon disk, Part No.: 3065872*

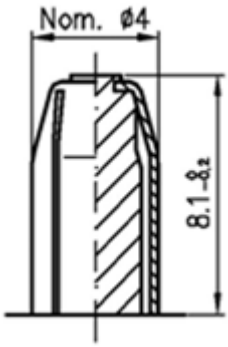


*Fig. 15: Claymount contact pin, new*

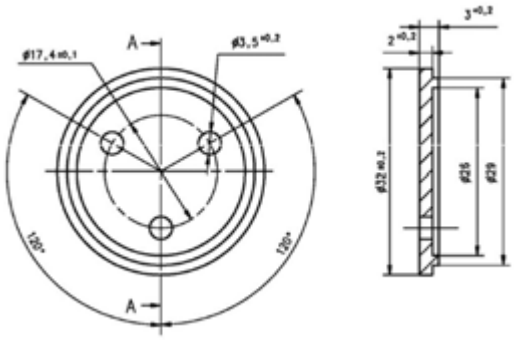


*Fig. 16: Claymount silicon disk, Part No.: 10093772*

- Turn out the safety screw (8/Fig. 12 / p. 14) from the mounting ring until it is no longer projecting out on the inside of the mounting ring.
- Unscrew the parts of the contact ring (3/Fig. 12 / p. 14).
- Slide the mounting ring (4/Fig. 12 / p. 14) over the high voltage connector.
- Place the halves of the contact ring over the contact flange (6/Fig. 12 / p. 14) and thread them together.
- Slide the sealer ring (2/Fig. 12 / p. 14) over the high voltage connector until it is up against the contact ring.
- Evenly apply silicon oil using only the tip of the tube on the front of the connector. Then place on the silicon disk and moisten it with silicon oil.

**NOTE**

**Two types of contact pins are used in the Claymount high voltage cables:**

- **With the cone-shaped, bronze-colored contact pin (Fig. 13 / p. 15), the silicon disk with Part No.: 3065872 (Fig. 14 / p. 15) is used**
- **With the straight, silver-colored contact pin (Fig. 15 / p. 15), the silicon disk with Part No.: 10093772 (Fig. 16 / p. 15) is used**

- Line up the guide nib on the high voltage connector with the slot on the socket and carefully insert the connector into the socket. When this is done, the air must be able to escape the socket.
- Hand-tighten the mounting ring on the cable sleeve.
- After about one hour, check the tightness of the mounting ring.
- Secure the mounting ring with the safety screw.

## Connecting the High Voltage Connectors to the High Voltage Transformer

- Turn out the safety screw from the mounting ring until it is no longer projecting out on the inside of the mounting ring.
- Unscrew the parts of the contact ring (3/Fig. 12 / p. 14).
- Slide the mounting ring (4/Fig. 12 / p. 14) over the high voltage connector.
- Place the halves of the contact ring over the contact flange (6/Fig. 12 / p. 14) and thread them together.
- Check the oil level in the socket; if needed, add oil. Minimum oil level without the connector inserted = 5 mm or 5 ml. The high voltage connector is inserted without a silicon disk.
- Line up the guide nib on the high voltage connector with the slot on the socket and carefully insert the connector into the socket.
- Hand-tighten the mounting ring.
- Secure the mounting ring with the safety screw.

## High Voltage Cables, Model X2195

| Part No.: | Designation | Use |
|---|---|---|
| 30 65 807 | HV Cable, 3-pole, 24m | With the following generators:<br>• POLYDOROS IS-C<br>• POLYDOROS IS-CF<br>• POLYDOROS IS-A on workstation 2 with 4-pole cathode-side high voltage cables<br>• POLYDOROS IS-AF on workstation 2 with 4-pole cathode-side high voltage cables |
| 30 65 815 | HV Cable, 3-pole, 26m | |
| 30 65 823 | HV Cable, 3-pole, 28m | |

**NOTE**

**If a 4-pole high voltage cable, model X2195 is used for connection of grid-controlled or 3-focus X-ray tubes (4-pole cathode-side socket) with the POLYDOROS IS-A(F) / IS-C(F), the 3-pole Superflex high voltage cable, model X2199 must be used on the anode side.**

### Replacement:

Pirelli High Voltage Cables (Pirelli High Voltage Cables / p. 32)

**NOTE**

**Anode-side and cathode-side high voltage cables must always be from the same manufacturer. In other words, if a Claymount high voltage cable is replaced with a Pirelli high voltage cable, both high voltage cables have to be replaced.**

### Recognition Features:

- High voltage cable color = cream white
- Cable diameter of the high voltage cable = 16 mm

### Items included in the Shipment:

When ordering a 3-pole high voltage cable, the 3-pole accessory pack is included.

*Fig. 17: Claymount accessory pack, 3-pole*

| | |
|---|---|
| Pos. 1 | Mounting ring |
| Pos. 2 | Contact ring |
| Pos. 3 | Sealer ring |
| Pos. 4 | Silicon disk, 3-pole |
| Pos. 5 | Silicon oil |

## Connecting the High Voltage Connectors to the X-ray Tube Unit

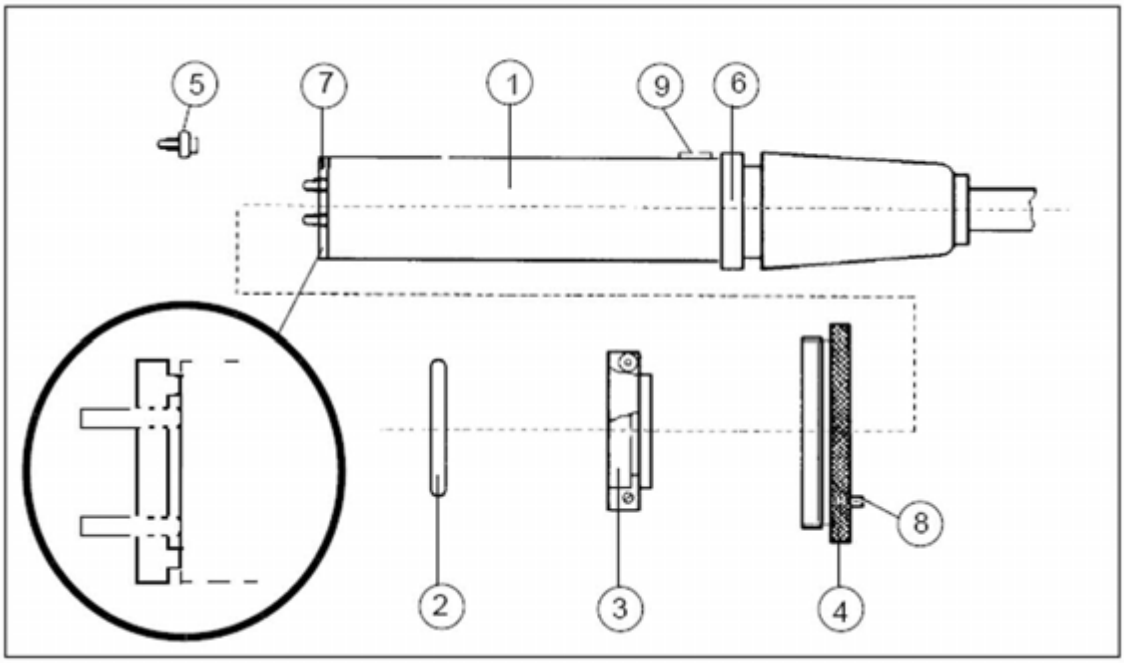


*Fig. 18: Claymount high voltage connectors*

Pos. 1 High voltage connectors
Pos. 2 Sealer ring
Pos. 3 Contact ring
Pos. 4 Mounting ring
Pos. 5 Contact pin (replaceable
Pos. 6 Contact flange (part of the high voltage connector)
Pos. 7 Silicon disk
Pos. 8 Safety screw for mounting ring
Pos. 9 Guide nipple on high voltage connector

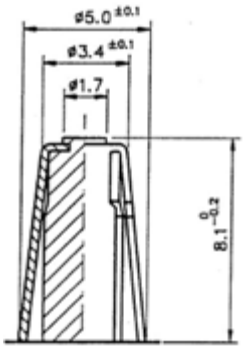


*Fig. 19: Claymount contact pin, old*

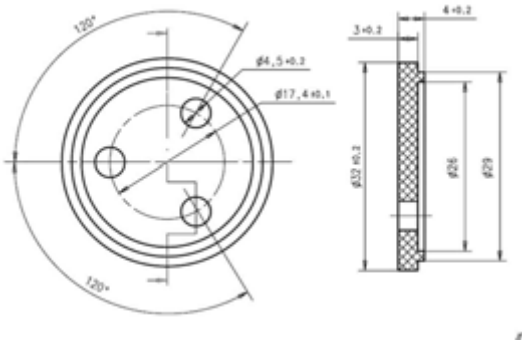

*Fig. 20: Claymount silicon disk, Part No.: 3065872*

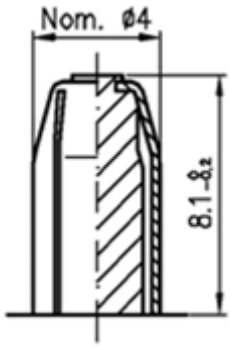


*Fig. 21: Claymount contact pin, new*

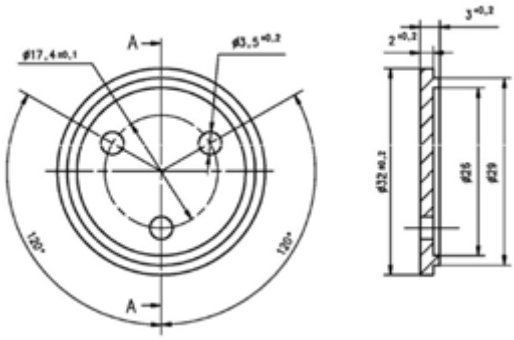


*Fig. 22: Claymount silicon disk, Part No.: 10093772*

- Turn out the safety screw (8/Fig. 18 / p. 19) from the mounting ring until it is no longer projecting out on the inside of the mounting ring.
- Unscrew the parts of the contact ring (3/Fig. 18 / p. 19).
- Slide the mounting ring (4/Fig. 18 / p. 19) over the high voltage connector.
- Place the halves of the contact ring over the contact flange (6/Fig. 18 / p. 19) and thread them together.
- Slide the sealer ring (2/Fig. 18 / p. 19) over the high voltage connector until it is up against the contact ring.
- Evenly apply silicon oil using only the tip of the tube on the front of the connector. Then place on the silicon disk and moisten it with silicon oil.

**NOTE**

**Two types of contact pins are used in the Claymount high voltage cables:**

- **With the cone-shaped, bronze-colored contact pin (Fig. 19 / p. 20), the silicon disk with Part No.: 3065872 (Fig. 20 / p. 20) is used**
- **With the straight, silver-colored contact pin (Fig. 21 / p. 20), the silicon disk with Part No.: 10093772 (Fig. 22 / p. 20) is used**

- Line up the guide nib on the high voltage connector with the slot on the socket and carefully insert the connector into the socket. When this is done, the air must be able to escape the socket.
- Hand-tighten the mounting ring on the cable sleeve.
- After about one hour, check the tightness of the mounting ring.
- Secure the mounting ring with the safety screw.

## Connecting the High Voltage Connectors to the High Voltage Transformer

- Turn out the safety screw from the mounting ring until it is no longer projecting out on the inside of the mounting ring.
- Unscrew the parts of the contact ring (3/Fig. 18 / p. 19).
- Slide the mounting ring (4/Fig. 18 / p. 19) over the high voltage connector.
- Place the halves of the contact ring over the contact flange (6/Fig. 18 / p. 19) and thread them together.
- Check the oil level in the socket; if needed, add oil. Minimum oil level without the connector inserted = 5 mm or 5 ml. The high voltage connector is inserted without a silicon disk.
- Line up the guide nib on the high voltage connector with the slot on the socket and carefully insert the connector into the socket.
- Hand-tighten the mounting ring.
- Secure the mounting ring with the safety screw.

## High Voltage Cables, Model X2199

| Part No.: | Designation | Use |
|---|---|---|
| 30 65 658 | HV Cable, 4-pole, 6m | With the following generators:<br>• POLYDOROS IS-C<br>• POLYDOROS IS-CF<br>• POLYDOROS IS-A on workstation 2 with 4-pole cathode-side high voltage cables<br>• POLYDOROS IS-AF on workstation 2 with 4-pole cathode-side high voltage cables<br>• POLYDOROS 80A with 3-focus X-ray tubes<br>• POLYDOROS 100A with 3-focus X-ray tubes |
| 30 65 666 | HV Cable, 4-pole, 8m | |
| 30 65 674 | HV Cable, 4-pole, 10m | |
| 30 65 682 | HV Cable, 4-pole, 12m | |
| 30 65 690 | HV Cable, 4-pole, 14m | |
| 30 65 708 | HV Cable, 4-pole, 16m | |
| 30 65 724 | HV Cable, 4-pole, 20m | |
| 30 65 740 | HV Cable, 4-pole, 24m | |
| 30 65 757 | HV Cable, 4-pole, 26m | |
| 30 65 765 | HV Cable, 4-pole, 28m | |

**NOTE**

**If a 4-pole high voltage cable, model X2195 is used for connection of grid-controlled or 3-focus X-ray tubes (4-pole cathode-side socket) with the POLYDOROS IS-A(F) / IS-C(F), the 3-pole Superflex high voltage cable, model X2199 must be used on the anode side.**

### Replacement:

Pirelli High Voltage Cables (Pirelli High Voltage Cables / p. 32)

**NOTE**

**Anode-side and cathode-side high voltage cables must always be from the same manufacturer. In other words, if a Claymount high voltage cable is replaced with a Pirelli high voltage cable, both high voltage cables have to be replaced.**

## Recognition Features:

- High voltage cable color = cream white
- Cable diameter of the high voltage cable = 19mm

## Items included in the Shipment:

When ordering a 4-pole high voltage cable, the 4-pole accessory pack is included.

*Fig. 23: Claymount accessory pack, 4-pole*

| | |
|---|---|
| Pos. 1 | Mounting ring |
| Pos. 2 | Contact ring |
| Pos. 3 | Sealer ring |
| Pos. 4 | Silicon disk, 4-pole |
| Pos. 5 | Silicon oil |

## Connecting the High Voltage Connectors to the X-ray Tube Unit

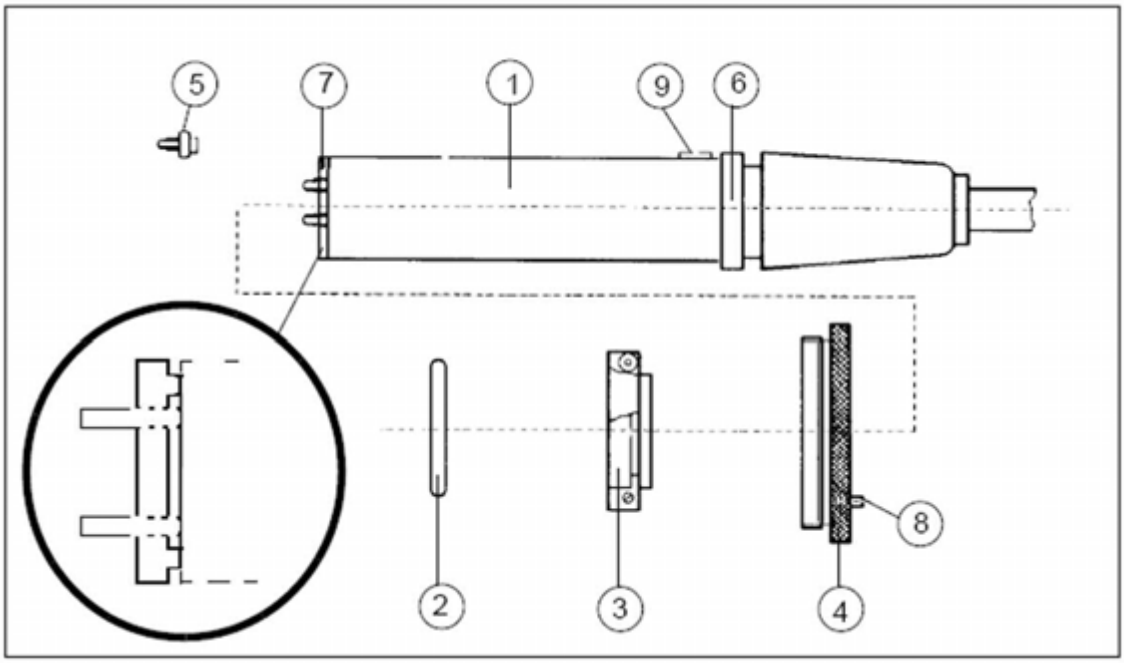


*Fig. 24: Claymount high voltage connectors*

| | |
|---|---|
| Pos. 1 | High voltage connectors |
| Pos. 2 | Sealer ring |
| Pos. 3 | Contact ring |
| Pos. 4 | Mounting ring |
| Pos. 5 | Contact pin (replaceable |
| Pos. 6 | Contact flange (part of the high voltage connector) |
| Pos. 7 | Silicon disk |
| Pos. 8 | Safety screw for mounting ring |
| Pos. 9 | Guide nipple on high voltage connector |

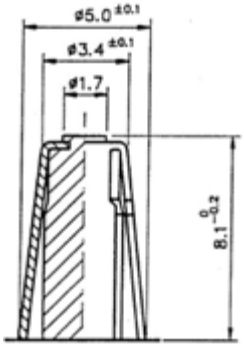


*Fig. 25: Claymount contact pin, old*

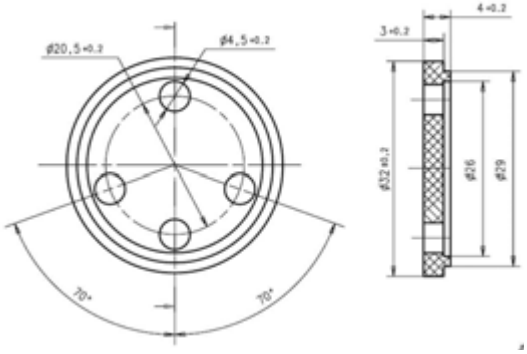


*Fig. 26: Claymount silicon disk, Part No.: 4775065*

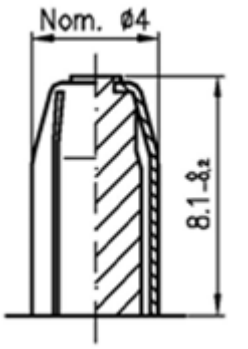


*Fig. 27: Claymount contact pin, new*

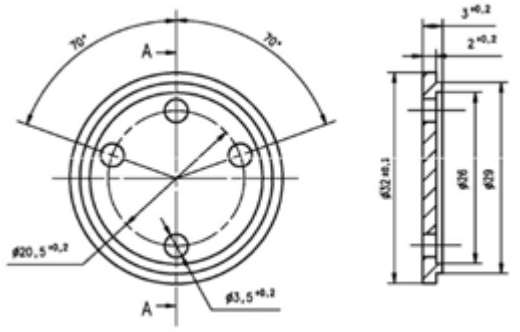


*Fig. 28: Claymount silicon disk, Part No.: 10093773*

- Turn out the safety screw (8/Fig. 24 / p. 24) from the mounting ring until it is no longer projecting out on the inside of the mounting ring.
- Unscrew the parts of the contact ring (3/Fig. 24 / p. 24).
- Slide the mounting ring (4/Fig. 24 / p. 24) over the high voltage connector.
- Place the halves of the contact ring over the contact flange (6/Fig. 24 / p. 24) and thread them together.
- Slide the sealer ring (2/Fig. 24 / p. 24) over the high voltage connector until it is up against the contact ring.
- Evenly apply silicon oil using only the tip of the tube on the front of the connector. Then place on the silicon disk and moisten it with silicon oil.

**NOTE**

**Two types of contact pins are used in the Claymount high voltage cables:**

- **With the cone-shaped, bronze-colored contact pin (Fig. 25 / p. 25), the silicon disk with Part No.: 3065872 (Fig. 20 / p. 20) is used**
- **With the straight, silver-colored contact pin (Fig. 27 / p. 25), the silicon disk with Part No.: 10093772 (Fig. 22 / p. 20) is used**

- Line up the guide nib on the high voltage connector with the slot on the socket and carefully insert the connector into the socket. When this is done, the air must be able to escape the socket.
- Hand-tighten the mounting ring on the cable sleeve.
- After about one hour, check the tightness of the mounting ring.
- Secure the mounting ring with the safety screw.

## Connecting the High Voltage Connectors to the High Voltage Transformer

- Turn out the safety screw from the mounting ring until it is no longer projecting out on the inside of the mounting ring.
- Unscrew the parts of the contact ring (3/Fig. 24 / p. 24).
- Slide the mounting ring (4/Fig. 24 / p. 24) over the high voltage connector.
- Place the halves of the contact ring over the contact flange (6/Fig. 24 / p. 24) and thread them together.
- Check the oil level in the socket; if needed, add oil. Minimum oil level without the connector inserted = 5 mm or 5 ml. The high voltage connector is inserted without a silicon disk.
- Line up the guide nib on the high voltage connector with the slot on the socket and carefully insert the connector into the socket.
- Hand-tighten the mounting ring.
- Secure the mounting ring with the safety screw.

## High Voltage Cables, Model G141E / G145E

| Part No.: | Designation | Use |
|---|---|---|
| 65 89 506 | HV Cable, 3-pole, 20m | AXIOM Artis MP / dMP |
| 65 89 514 | HV Cable, 4-pole, 20m | AXIOM Artis MP / dMP |
| 65 55 978 | HV Cable, 3-pole, 28m | AXIOM Artis FA / FC / dFA / dFC / dFCM / BA (Plane A) / BC (Plane A) / dBA (Plane A) / dBC (Plane A) |
| 65 55 986 | HV Cable, 4-pole, 28m | AXIOM Artis FA / FC / dFA / dFC / dFCM / BA (Plane A) / BC (Plane A) / dBA (Plane A) / dBC (Plane A) |
| 65 89 639 | HV Cable, 3-pole, 30m | AXIOM Artis TA / TC / dTA / dTC / BA (Plane B) / BC (Plane B) / dBA (Plane B) / dBC (Plane B) |
| 65 89 647 | HV Cable, 4-pole, 30m | AXIOM Artis TA / TC / dTA / dTC / BA (Plane B) / BC (Plane B) / dBA (Plane B) / dBC (Plane B) |

### Replacement:

Claymount High Voltage Cables with Euroflex Hose (Claymount High Voltage Cables with Euroflex Hose / p. 7)

**NOTE**

**Mixed use of anode-side and cathode-side high voltage cables is permitted. In other words, if a Pirelli high voltage cable is replaced with a Claymount high voltage cable, both high voltage cables do not have to be replaced.**

### Recognition Features:

- Color of the high voltage cable connectors = blue or black
- High voltage cables identified with the SIEMENS printing.
- Cable diameter of the 3- and 4-pole high voltage cables = 16 mm
- High Voltage Cables covered with the black Euroflex hose

## Items Included in Shipment

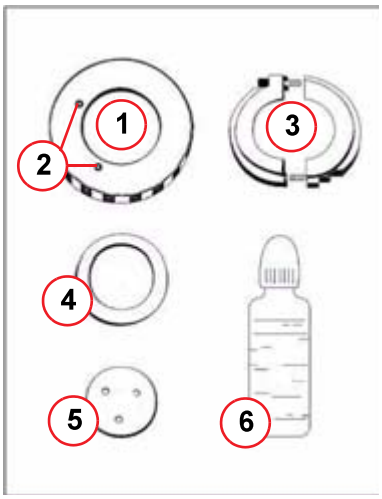


*Fig. 29: Pirelli accessory pack, 3-pole*

| | |
|---|---|
| Pos. 1 | Mounting ring |
| Pos. 2 | Set screws |
| Pos. 3 | Contact ring |
| Pos. 4 | Sealer ring |
| Pos. 5 | Silicon disk, 3-pole |
| Pos. 6 | Silicon oil |

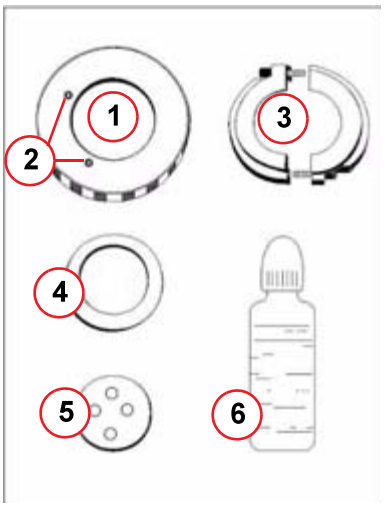


*Fig. 30: Pirelli accessory pack, 4-pole*

| | |
|---|---|
| Pos. 1 | Mounting ring |
| Pos. 2 | Set screws |
| Pos. 3 | Contact ring |
| Pos. 4 | Sealer ring |
| Pos. 5 | Silicon disk, 4-pole |
| Pos. 6 | Silicon oil |

**NOTE**

**When ordering a 3-pole high voltage cable, two 3-pole accessory packs are included.**

**When ordering a 4-pole high voltage cable, two 4-pole accessory packs are included.**

## Connecting the High Voltage Connectors to the X-ray Tube Unit

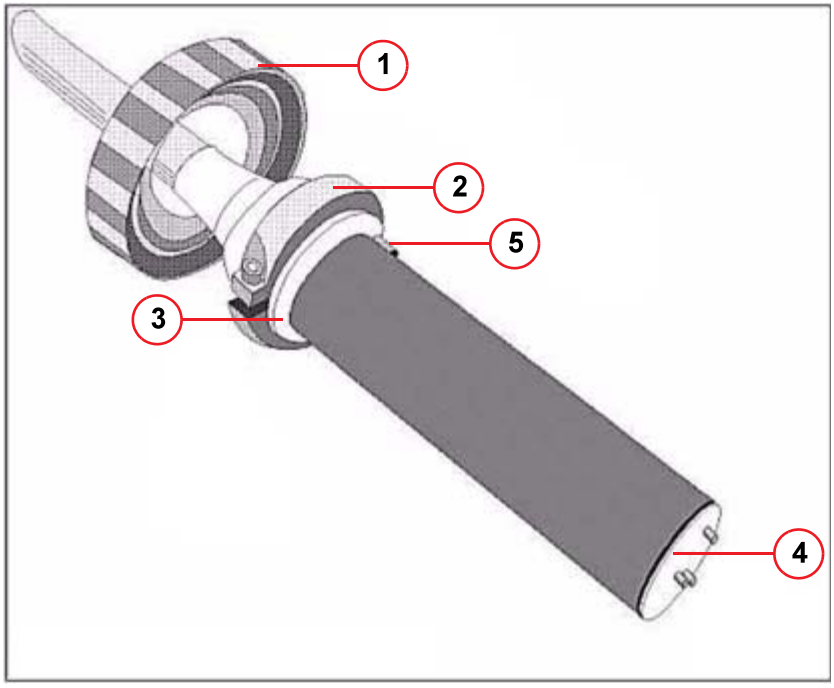


*Fig. 31: Pirelli high voltage connectors, installation*

Pos. 1 Mounting ring
Pos. 2 Contact ring
Pos. 3 Sealer ring
Pos. 4 Silicon disk
Pos. 5 Guide nipple on high voltage connector

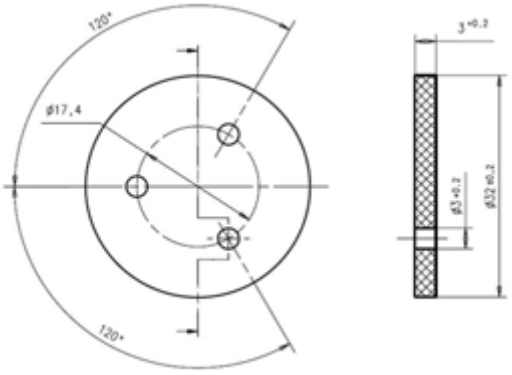


*Fig. 32: Pirelli silicon disk, Part No.: 1786508*

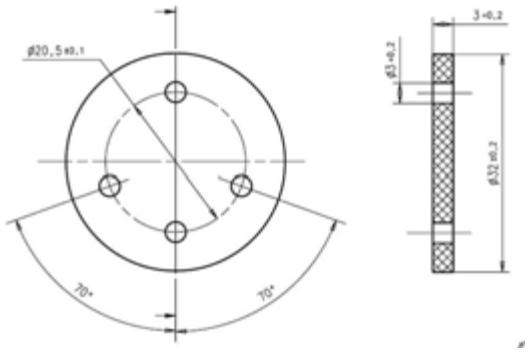


*Fig. 33: Pirelli silicon disk, Part No.: 1786516*

- Turn out the two safety screws (2/Fig. 29 / p. 28) from the mounting ring until they are no longer projecting out on the inside of the mounting ring.
- Slide the mounting ring (1/Fig. 31 / p. 29) over the connector, threads facing the connector.
- Place the contact ring half cowls (2/Fig. 31 / p. 29) over the flange with the slot close to stop.
- Evenly tighten the screws on the contact ring half cowls.

- Pull the sealer ring (3/Fig. 31 / p. 29) over the connector up to the flange.
- Evenly apply silicon oil using only the tip of the tube on the front of the connector. Then place on the silicon disk (4/Fig. 31 / p. 29) and moisten it with silicon oil.

**NOTE**

**For AXIOM Artis systems with a:**

- **MEGALIX CAT 125/35/80-121GW, Part No.: 5764506**
- **OPTITOP 150/40/80HC-100-4, Part No.: 4802216**

**there must be a short circuit jumper (Fig. 34 / p. 30) on the cathode side high voltage cable between the grid (G) and cathode (0) connection pins.**

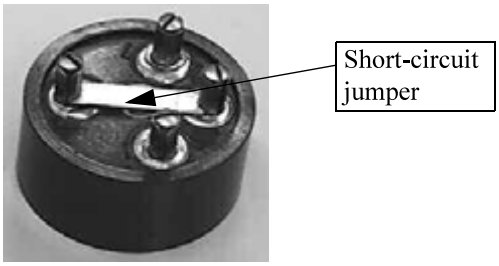


*Fig. 34: Short-circuit jumper for 2-focus tube*

- Line up the guide nib on the high voltage connector (5/Fig. 31 / p. 29) with the slot on the socket and carefully insert the connector into the socket.
- Hand-tighten the mounting ring; when doing this, hold the high voltage cable so it does not twist.
- Tighten both set screws on the mounting ring until there is slight resistance (securing against turning).

## Connecting the High Voltage Connectors to the High Voltage Transformer

- Turn out the two safety screws (2/Fig. 29 / p. 28) from the mounting ring until they are no longer projecting out on the inside of the mounting ring.
- Slide the mounting ring (1/Fig. 31 / p. 29) over the connector, threads facing the connector.
- Place the contact ring half cowls (2/Fig. 31 / p. 29) over the flange with the slot close to stop.
- Evenly tighten the screws on the contact ring half cowls.
- Installation of the High Voltage Connector, depending on the Generator:
  - With POLYDOROS A100:

    Evenly apply silicon oil using only the tip of the tube on the front of the connector. Then place on the silicon disk and moisten it with silicon oil.
  - With POLYDOROS IS A(F) open:

    Check the oil level in the socket; if needed, add oil. Minimum oil level without the connector inserted = 5 mm or 5 ml. The high voltage connector is inserted without a silicon disk.

- Line up the guide nib on the high voltage connector (5/Fig. 31 / p. 29) with the slot on the socket and carefully insert the connector into the socket.
- Hand-tighten the mounting ring; when doing this, hold the high voltage cable so it does not twist.
- Tighten both set screws on the mounting ring until there is slight resistance (securing against turning).

## High Voltage Cables, Model RH098

| Part No.: | Designation | Use |
|---|---|---|
| 44 66 389 | HV Cable, 3-pole, 4m | With the following generators:<br>• POLYDOROS 80A<br>• POLYDOROS 100A<br>• POLYDOROS IS-A<br>• POLYDOROS IS-AF<br>• POLYDOROS IS-C<br>• POLYDOROS IS-CF<br>• POLYDOROS SX50/80<br>• POLYDOROS SX65/80<br>• POLYDOROS LX30/50<br>• POLYDOROS LX30/50 Lite<br>• POLYDOROS LX 80<br>• POLYDOROS IT |
| 44 66 397 | HV Cable, 3-pole, 6m | |
| 44 66 405 | HV Cable, 3-pole, 8m | |
| 44 66 413 | HV Cable, 3-pole, 10m | |
| 44 66 421 | HV Cable, 3-pole, 12m | |
| 44 66 439 | HV Cable, 3-pole, 14m | |
| 44 66 447 | HV Cable, 3-pole, 16m | |
| 44 66 454 | HV Cable, 3-pole, 18m | |
| 44 66 462 | HV Cable, 3-pole, 20m | |
| 44 66 470 | HV Cable, 3-pole, 22m | |
| 44 66 488 | HV Cable, 3-pole, 24m | |
| 44 66 496 | HV Cable, 3-pole, 26m | |
| 58 90 194 | HV Cable, 3-pole, 28m | |
| 58 90 186 | HV Cable, 3-pole, 30m | |

| Part No.: | Designation | Use |
|---|---|---|
| 58 90 160 | HV Cable, 4-pole, 16m | With the following generators:<br>• POLYDOROS IS-C and IS-CF<br>• POLYDOROS IS-A and IS-AF on workstation 2 with 4-pole cathode-side high voltage cables<br>• POLYDOROS 80A and 100A with 3-focus X-ray tubes |
| 58 90 152 | HV Cable, 4-pole, 20m | |
| 58 90 145 | HV Cable, 4-pole, 24m | |
| 58 90 137 | HV Cable, 4-pole, 26m | |
| 58 90 129 | HV Cable, 4-pole, 28m | |
| 58 90 103 | HV Cable, 4-pole, 30m | |

**NOTE**

**When used with the POLYDOROS IS-A(F) / IS-C(F), the D45 board (Part No.: 2797962) must have Rev. 02 or higher. This is necessary to ensure adaptation of the capacitance to the high voltage cable Model RH098.**

## Replacement:

n.a.

## Recognition Features:

- Color of the high voltage cable connectors = blue or black
- High voltage cables identified with the SIEMENS printing.
- Cable diameter of the 3- and 4-pole high voltage cables = 16 mm

## Items Included in Shipment

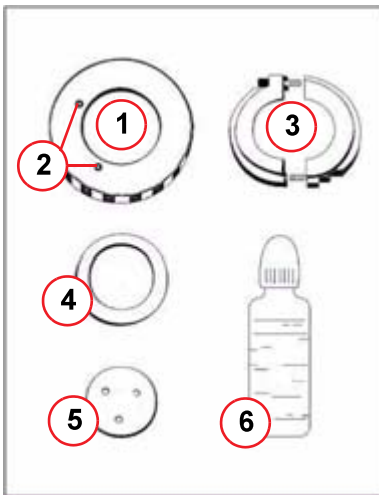


*Fig. 35: Pirelli accessory pack, 3-pole*

| | |
|---|---|
| Pos. 1 | Mounting ring |
| Pos. 2 | Set screws |
| Pos. 3 | Contact ring |
| Pos. 4 | Sealer ring |
| Pos. 5 | Silicon disk, 3-pole |
| Pos. 6 | Silicon oil |

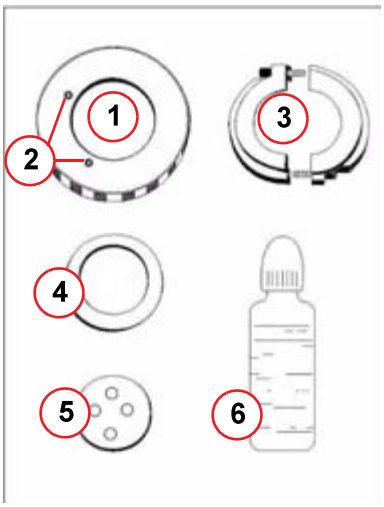


*Fig. 36: Pirelli accessory pack, 4-pole*

| | |
|---|---|
| Pos. 1 | Mounting ring |
| Pos. 2 | Set screws |
| Pos. 3 | Contact ring |
| Pos. 4 | Sealer ring |
| Pos. 5 | Silicon disk, 4-pole |
| Pos. 6 | Silicon oil |

**NOTE**

**When ordering a 3-pole high voltage cable, two 3-pole accessory packs are included.**

**When ordering a 4-pole high voltage cable, two 4-pole accessory packs are included.**

## Connecting the High Voltage Connectors to the X-ray Tube Unit

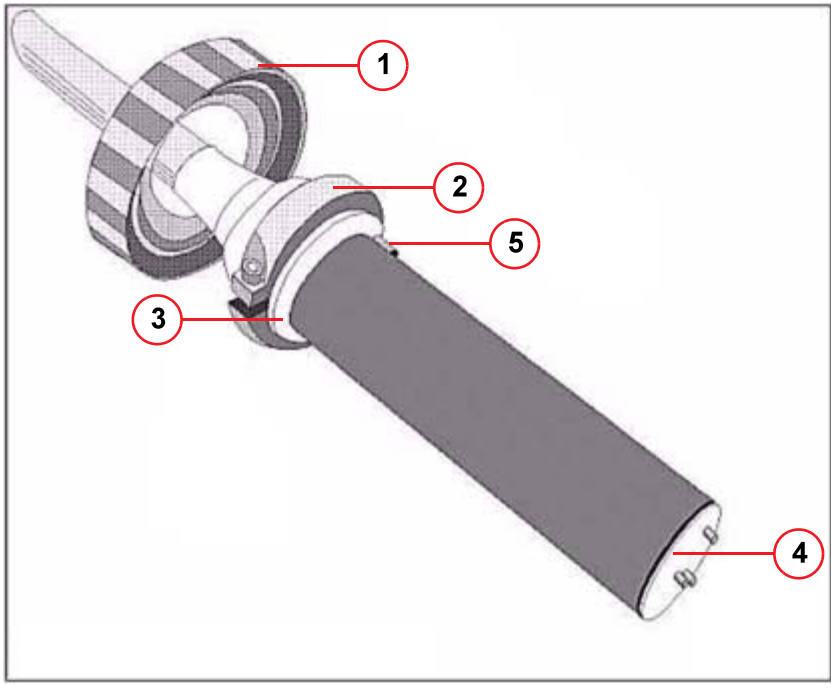


*Fig. 37: Pirelli high voltage connectors, installation*

Pos. 1 Mounting ring
Pos. 2 Contact ring
Pos. 3 Sealer ring
Pos. 4 Silicon disk
Pos. 5 Guide nipple on high voltage connector

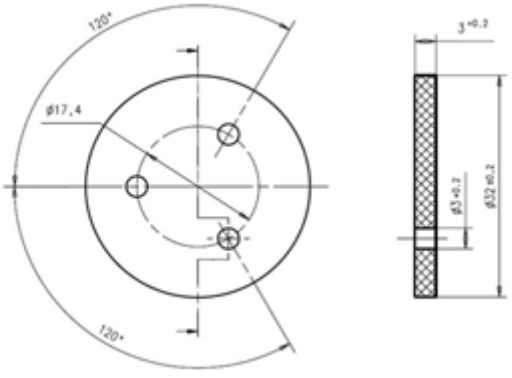


*Fig. 38: Pirelli silicon disk, Part No.: 1786508*

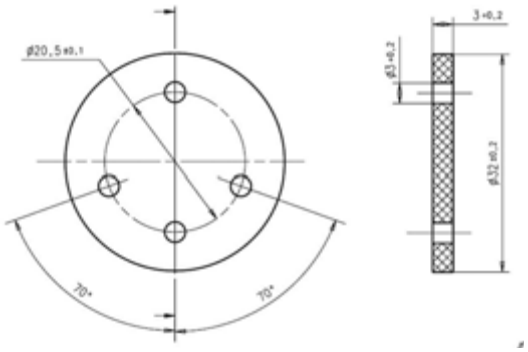


*Fig. 39: Pirelli silicon disk, Part No.: 1786516*

- Turn out the two safety screws (2/Fig. 35 / p. 34) from the mounting ring until they are no longer projecting out on the inside of the mounting ring.
- Slide the mounting ring (1/Fig. 37 / p. 35) over the connector, threads facing the connector.
- Place the contact ring half cowls (2/Fig. 37 / p. 35) over the flange with the slot close to stop.
- Evenly tighten the screws on the contact ring half cowls.

- Pull the sealer ring (3/Fig. 37 / p. 35) over the connector up to the flange.
- Evenly apply silicon oil using only the tip of the tube on the front of the connector. Then place on the silicon disk (4/Fig. 37 / p. 35) and moisten it with silicon oil.
- Line up the guide nib on the high voltage connector (5/Fig. 37 / p. 35) with the slot on the socket and carefully insert the connector into the socket.
- Hand-tighten the mounting ring; when doing this, hold the high voltage cable so it does not twist.
- Tighten both set screws on the mounting ring until there is slight resistance (securing against turning).

## Connecting the High Voltage Connectors to the High Voltage Transformer

- Turn out the two safety screws (2/Fig. 35 / p. 34) from the mounting ring until they are no longer projecting out on the inside of the mounting ring.
- Slide the mounting ring (1/Fig. 37 / p. 35) over the connector, threads facing the connector.
- Place the contact ring half cowls (2/Fig. 37 / p. 35) over the flange with the slot close to stop.
- Evenly tighten the screws on the contact ring half cowls.
- Installation of the High Voltage Connector, depending on the Generator:
  - With POLYDOROS IT:

    Evenly apply silicon oil using only the tip of the tube on the front of the connector. Then place on the silicon disk and moisten it with silicon oil.
  - With all other generators:

    Check the oil level in the socket; if needed, add oil. Minimum oil level without the connector inserted = 5 mm or 5 ml. The high voltage connector is inserted without a silicon disk.
- Line up the guide nib on the high voltage connector (5/Fig. 37 / p. 35) with the slot on the socket and carefully insert the connector into the socket.
- Hand-tighten the mounting ring; when doing this, hold the high voltage cable so it does not twist.
- Tighten both set screws on the mounting ring until there is slight resistance (securing against turning).

None; initial publication.